

(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/090752 A1(51) International Patent Classification⁷: E21B 47/08

(21) International Application Number: PCT/EP2005/001436

(22) International Filing Date: 8 February 2005 (08.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 04290744.4 18 March 2004 (18.03.2004) EP

(71) Applicant (for FR only): SERVICES PETROLIERS SCHLUMBERGER [FR/FR]; 42, rue Saint-Dominique, F-75007 Paris (FR).

(71) Applicant (for AT, AU, AZ, CO, DE, DK, ES, HR, ID, IE, IT, KP, KR, KZ, MX, NO, NZ, PH, PL, RO, RU, SK, TM,

UA, ZA only): SCHLUMBERGER TECHNOLOGY B.V. [NL/NL]; Parkstraat 83-89, NL-2514 JG The Hague (NL).

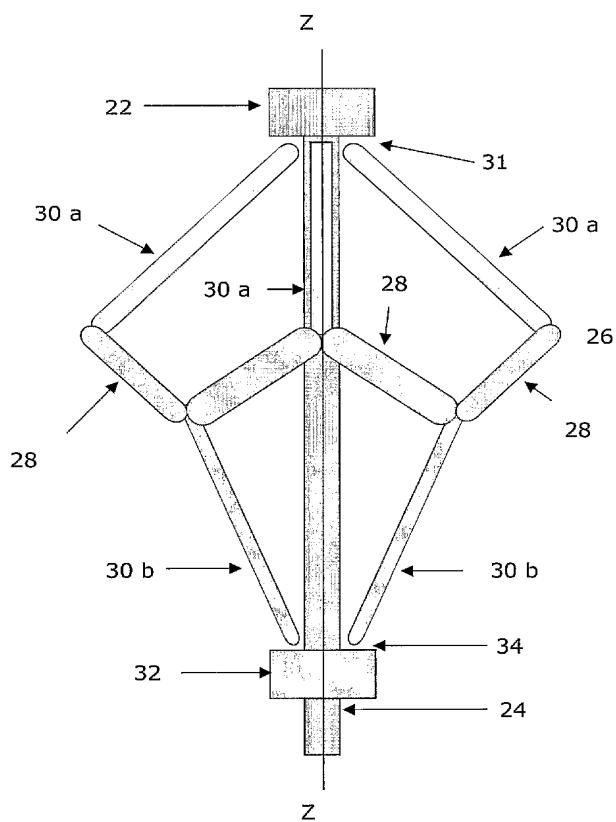
(71) Applicant (for all designated States except AE, AT, AU, AZ, BR, CA, CG, CM, CN, CO, CZ, DE, DK, DZ, EC, EG, ES, FR, GA, GN, GQ, GW, HR, ID, IE, IN, IT, KP, KR, KZ, LT, MA, MX, NA, NE, NO, NZ, OM, PG, PH, PL, RO, RU, SD, SK, SY, TD, TM, TN, TR, TT, UA, VN, ZA): SCHLUMBERGER HOLDINGS LIMITED; PO Box 71, Craigmuir Chambers, Road Town, Tortola (VG).

(71) Applicant (for CA only): SCHLUMBERGER CANADA LIMITED [CA/CA]; 525-3rd Avenue S.W, Calgary, Alberta, Canada T2P 0G4 (CA).

(71) Applicant (for CN only): SCHLUMBERGER OVERSEAS S.A. [PA/PA]; 8 Calle Aquilino de la Guardia, Panama City (PA).

[Continued on next page]

(54) Title: BOREHOLE TOOL



(57) Abstract: A borehole tool, comprises: a tool body; a series of arms connected to the tool body and moveable radially relative thereto; and a series of pads mounted on the arms so as to be pivotable about a radial axis relative to the tool body. By allowing pivoting of the pads about a radial axis, elongate pads can be arranged to provide different circumferential coverage according to the orientation with respect to the longitudinal axis of the borehole.



(71) **Applicant (for AE, OM, SD, SY, TR only): SCHLUMBERGER OILFIELD ASSISTANCE LIMITED;** Craigmuir Chambers, Road Town, Tortola (VG).

(71) **Applicant (for BR only): SCHLUMBERGER SURENCO S.A. [PA/PA];** 8 Calle Aquilino de la Guardia, Panama City, Panama (PA).

(71) **Applicant (for TT only): SCHLUMBERGER SERVICES LIMITED;** P.O. Box 438, Tortola (VG).

(71) **Applicant (for EG only): SCHLUMBERGER SEACO INC. [PA/PA];** 8 Calle Aquilino de la Guardia, Panama City, Republic of Panama (PA).

(71) **Applicant (for CG, CM, CZ, DZ, EC, GA, GN, GQ, GW, IN, LT, MA, NA, NE, PG, TD, TN, VN only): PRAD RESEARCH AND DEVELOPMENT NV [NL/NL];** De Ruyterkade 62, Willemstad-Curacao (AN).

(72) **Inventor; and**

(75) **Inventor/Applicant (for US only): LULING, Martin [DE/FR];** 26, rue Cardinet, F-75017 Paris (FR).

(74) **Common Representative: ETUDES & PRODUCTIONS SCHLUMBERGER;** 1, rue Henri Becquerel, B-P 202, F-92142 Clamart Cedex (FR).

(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.